



STATE OF HAWAII
DEPARTMENT OF HEALTH
P.O. Box 3378
Honolulu, HI 96801-3378

In reply, please refer to:
File:

**NEUROTRAUMA ADVISORY BOARD (NTAB)
MEETING MINUTES
December 28, 2018**

Present: Rita Manriquez, Molly Trihey, Scott Sagum, Angie Enoka, Milton Takara, Sara Farnham, Stella Wong, Leilani Nutt, Lyna Burian
Excused: Valerie Yamada
Others: Dr. Violet Horvath, Pacific Disabilities Center (PDC); Tina Robertson, Queen's Medical Center (QMC); Allison Tsuchida, Hawaii Concussion Awareness and Management Program (HCAMP); Ipo Kaihana, Support Guest; Howard Lesser, Hawaii Disability Rights Center (HDRC); Nathan Murata, University of Hawaii College of Education; Ross Oshiro, HCAMP; Gloria Ilagan, Department of Education
DOH Staff: Curtis Inouye, Neurotrauma Supports; Chelsea Ko, Neurotrauma Supports; Michele Tong, Neurotrauma Supports

- I. **Call to Order** – Meeting was called to order at 1:45pm by Chair Scott Sagum. Quorum present.
- II. **Approval of Minutes from the October 26 meeting** –
Board Member Dr. Sara Farnham motioned to accept the minutes as written. Board Member Rita Manriquez seconded the motion. All Board Members present voted in favor of minutes being accepted as written. No questions or discussions.
- III. **Review of Agenda** – All Board Members present voted in favor of accepting the agenda. No questions or discussions.
- IV. **New Business:**
 - A. Concussion Summit:
The Hawaii Concussion Awareness & Management Program (HCAMP) announced its 10th Annual Concussion Summit to be held at the UH-Manoa Campus Center Ballroom on July 12-13, 2019. Since its inception in 2010, HCAMP, with funding from Neurotrauma Special Funds, hosted the annual event as a means of providing concussion

education and awareness for Athletic Trainers, Parents, Coaches, and School administrators. As of the last concussion summit in 2018, the summit attracted professionals of various medical fields, and national and international guests to speak at the engagement. As in previous years, HCAMP will continue its “live” streaming of the summit for those unable to attend.

Ross Oshiro of HCAMP submitted a request for funding, in the amount of \$25,000, for this year’s concussion summit to assist with registration and speaker fees. Board Member Dr. Sara Farnham motioned to approve the request to provide funding for the HCAMP Concussion Summit; Board Member Stella Wong seconded the motion. All board members present voted in favor.

- B. New Head, Neck, Spine Contract: Fiscal Years 2021-2023:
The new Head, Neck, Spine contract for fiscal years 2021-2023 will expand its online curriculum to include home-schooled students and teachers. Initially, the curriculum was exclusively designed to target school students in the 1st to 10th grades. However, Dr. Nathan Murata of HCAMP stated Year 4 and 5 will address its new objectives.

Board Member Dr. Sara Farnham motioned to approve the proposal; Board Member Rita Manriquez seconded the motion. All board members present voted in favor.

V. **Old Business:**

- A. Neurotrauma Strategic Plan Update:
Neurotrauma Supports requested board member feedback on strategic goal/objective 1.3, with consideration to the appending questions:
1. How can we identify which disability/health care providers have the greatest need for increasing awareness and knowledge of neurotrauma?
 2. What type of information should be provided to this/these providers?
 3. How will we know if we were successful in increasing providers’ awareness and knowledge in these areas?

Feedback was collected from several board members. DOH staff Chelsea Ko will gather responses and present at the next NTAB meeting.

- B. Project Head, Neck, Spine (PHNS) Update:

Dr. Allison Tsuchida of HCAMP reported three schools utilizing the online curriculum; two schools in Honolulu and one on Maui. A total of 155 students and 3 instructors participated—84 students are done with module 4 (half-way) and 35 students completed all modules. As of December 1, 2018, there are 7-sites with teacher dashboards.

HCAMP is currently working on the upper elementary content and is hoping to submit curriculum to the DOE research committee in January. They are also looking to identifying 5th grade teachers who can help validate the curriculum and hope to have the complete version ready to go by April 2019.

C. Pacific Disabilities Center (PDC)/Hawaii Neurotrauma Registry (HNTR)
Update:

(Highlighted points from HNTR Summary Report)

A total of 10-individuals took the survey in December; seven individuals reside on Hawaii Island and three are from Oahu. As of December 20, 2018, a total of 50-surveys was gathered for this contract year.

Recent events included HNTR participation in a 2018 HMSA Akamai Senior Fair in Kona, the Pacific Head Injury Support Group in Kona, and visiting 1st graders at Kalihi Kai Elementary School.

HNTR is now fully staffed and is working with DOH on a contract for Year 7 of HNTR (March 20, 2019-March 19, 2020).

D. Hawaiian Islands Regional Stroke Network (HIRSN) Update:
HIRSN contract with DOH will end in May 2019. During that time, active spoke sites will transition from grant-based funding to fee for service. Per Tina Robertson of QMC, there is still left-over funds from the previous year and that will be used towards education on the Big Island. *Please refer to HIRSN report for full a full administration summary.*

E. Transfer Training Update:
Board Member Molly Trihey reported she met with Rehab Hospital and DOH on December 10, 2018 to discuss her concerns regarding changes made to the Transfer Training program. Molly reported it was agreed that Rehab Hospital would provide the one-day training on February 23, 2019, would obtain feedback from participants, and would adjust the program as needed.

- F. Brain Injury Association (BIA) of Hawaii Update:
No new updates
- G. Neighbor Island Activities:
Chair Scott Sagum will be conducting a series of surfer's myelopathy classes on Kauai soon. He was invited by a new surf school to give a presentation and may combine sessions with the Brain Injury Group (BIG).
- H. DOH Updates:
No new updates

VI. **Announcements:**

Brain Injury Association of Hawaii

Support Group and Educational Meetings

1. First Saturdays, 1:00-3:00 p.m., Rehabilitation Hospital of the Pacific, Wo Conference Room #4
2. 3rd Wednesdays, 6:00-8:00 p.m., Rehabilitation Hospital of the Pacific, Wo Conference Room #4

VII. **Next Meeting:**

Date: February 22, 2018

Location: Honolulu: Kinau Hale Building, 1250 Punchbowl St., 1st Floor Board Rm.

Lihue: Kauai District Health Office, 3040 Umi St.

Zoom: <https://zoom.us/j/501380154>

Time: 1:30 p.m. to 4:00 p.m.

Meeting Adjourned at 3:05pm



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John A. Burns School of Medicine
Pacific Disabilities Center

Hawai'i Neurotrauma Registry Project Report
for the Neurotrauma Advisory Board
January 22, 2019, 1:30 — 4:00 pm

Report Outline

1. Activities and Information and Referrals Summary Tables
2. Registry Recruitment and Variables
3. Community Outreach – Events, Presentations, and Meetings

The three main goals of the Hawaii Neurotrauma Registry Project are:

1. Recruit Hawaii residents on all islands and of all ages with neurotrauma injuries to take a voluntary survey on their injuries and post-injury needs and circumstances
2. Provide education to the general public and professionals on all islands about neurotrauma injuries and the Registry
3. Offer Information and Referral services to Hawaii residents with neurotrauma injuries and their family members, caregivers, and other supports

Information gathered from the surveys assists the Department of Health in identifying the community supports and services needed by neurotrauma injury survivors, helps to educate service providers, and helps to develop safety and prevention plans and policies.

Registry Recruitment

Year	Time Period	Number of Unique Persons
1	March 21, 2013 – March 20, 2014	41
2	March 21, 2014 – March 20, 2015	57
3	March 21, 2015 – March 20, 2016	45
4	March 21, 2016 – March 20, 2017	54
5	March 21, 2017 – March 19, 2018	54
6	March 20, 2018 – January 19, 2019	55
	Total	306

Variable	Attribute	Number N=306
Gender	Males	152
	Females	155
	Missing	2
Who completed the survey	Person with NT injury	54
	HNTR Staff	30
	Spouse / Partner / Significant Other of person with NT injury	12
	Parent of person with NT injury	7
	Child of person with NT injury	6
	Sibling of person with NT injury	2
	Other	3
Location	Oahu	256
	Hawaii	36
	Maui	8
	Kauai	4
	Molokai	1
	Washington State	1
	Missing	1

Traumatic Brain Injury (TBI)	Includes first, second, or third TBI, concussion, or head injury	162
Acquired Brain Injury (ABI)	Includes first, second, or third ABI	33
Stroke	Type not distinguished	10
Stroke – Hemorrhagic	Includes first, second, or third hemorrhagic stroke	47
Stroke – Ischemic	Includes first, second, or third ischemic stroke	89
Transient Ischmic Attack		4
Spinal Cord Injury	Includes first, second, or third SCI	47
Missing		3
Other		13

Community Outreach

Events, Presentations, and Meetings – December 2018:

1. Meeting with Hawaii Concussion Awareness Management Program staff
2. Kalihi Kai Elementary School (First Graders)
3. Epilepsy Foundation of Hawaii
4. Hawaii County Office on Aging, Aging and Disability Resource Center
(Kona, Hawaii)
5. Pacific Head Injury Support Group (Kona, Hawaii)
6. Parkinson's Support Group (Kahului, Maui)
7. Maui Family Support Services and Liliuokalani Trust (combined)
(Wailuku, Maui)
8. Dropped off brochures at West Hawaii Community Health Center (Kona,
Hawaii)
9. Sent brochures to public health nurses at Kona Health Center (Kona,
Hawaii)

Events, Presentations, and Meetings – January 2019:

1. Aiea High School Planning meeting
2. Hawaii Concussion Awareness Management Program meeting
3. Meeting with Dr. Virginia Hinshaw about participating in Mini-Medical
School
4. Meeting with staff at Hawaii Women in Filmmaking
5. Aiea High School Biology Class Presentations (two)
6. Chaminade University Club Fair
7. Meeting with Heidi Unten, DOE, Kailua

8. Maili Children's Community Council Meeting
9. Ko'olauloa Children's Community Council Meeting
10. Anchor Church
11. Iliahi Elementary School
12. Kai Waimanalo Recreation Staff, Department of Parks and Recreation

Future Presentations:

1. HTA Charter School (STEM class)
2. Brain Injury Association of Hawaii Support Group
3. Aiea High School presentations (two) to three Human Physiology class and AP Biology classes
4. Meeting with Stefany Garcia of Exceptional Family Member Program
5. University of Hawaii at Mānoa Hui Ola Pono
6. Hawaii Pacific University Psychology Symposium
7. Hawaii Job Corps
8. Maui Office on Aging / Aging and Disability Resource Center (tentative) (Kahului, Maui)
9. Leeward Community Senior Ministry
10. SEEQS Charter School
11. Waianae Coast Keiki Spring Fest (tentative)
12. 33rd Annual SPIN Conference
13. Aloha Independent Living Maui (tentative) (Kahului, Maui)
14. Leeward Community Church

Project Head, Neck, Spine Update
NTAB Meeting on 2/22/19

Five schools utilizing curriculum:

- Three high school and two middle schools
- Three on Oahu (Middle N = 27; High N = 149)
 - Honolulu (Middle N = 27; High N = 18)
 - West Oahu (High = 131)
- Two on Maui (Middle N = 114; High N=111)

Data:

- 6 instructors
- Total students N = 401
 - Average summary score of 81.4%
 - 233 done with module 4 (half-way)
 - Average summary score of 84.4%
 - 157 complete
 - Average summary score of 87.1%
- Pre- and Post-test data
 - Pre-test average of 67.3%
 - Post-test average of 77.0%
- Module average scores
 - All above 80%, except for Module 2 which is around 73%

On Deck:

- Total of 12 sites set up; actively recruiting teachers
- Awaiting DOE research approval for Upper Elementary curriculum.

Hawaiian Islands Regional Stroke Network Update

(Funded by a grant from the Hawaii State Dept. of Health Neurotrauma Fund)

Hub site: The Queen's Medical Center

Current spoke sites:

Current active sites are Molokai General Hospital (activated on 11/8/2011), Wahiawa General Hospital (activated on 6/21/12), Hilo Medical Center (activated on 8/1/13), The Queen's Medical Center—West O'ahu (activated on 1/12/15), Kona Community Hospital (activated on 5/27/15), North Hawaii Community Hospital (activated 12/15/15), The Queen's Medical Center Punchbowl and Kahuku Medical Center (activated on 09/01/17). The nine spoke site hospitals – ED MDs and nurses, hospitalists, and administration - have been educated on stroke care paths and protocols and in-serviced on use of the technology.

Maui Memorial Medical Center has transitioned from state-owned to a Kaiser subsidiary so is no longer a spoke site as of 03/01/2018.

Total Activity to date

Total Calls	1269		
Incomplete Calls	161	Triage calls, not telestroke	100
		Technical difficulties	61
Completed Calls	1108	Molokai General Hospital (MGH)	40
		Wahiawa General Hospital (WGH)	103
		Hilo Medical Center (HMC)	165
		The Queen's Medical Center West (QMC-W)	512
		Kona Community Hospital (KCH)	109
		Maui Memorial Medical Center (MMMC)	28
		North Hawaii Community Hospital (NHCH)	64
		The Queen's Medical Center Punchbowl	79
		Kahuku Medical Center	8
# IV tPA Administrations	387	# Transferred to QMC Punchbowl	245
		# Not transferred-remained at site or transferred to another institution	142
Total Transfers to QMC Punchbowl	353	Non tPA Transfers	108

Activity year to date 01/01/2019 to 02/14/2019

Total Calls	51		
Incomplete Calls	8	Triage calls	8
		Technical difficulties	0
Completed Calls	43	Molokai General Hospital (MGH)	1
		Wahiawa General Hospital (WGH)	2
		Hilo Medical Center (HMC)	10
		The Queen's Medical Center West Oahu (QMC-W)	24
		Kona Community Hospital (KCH)	2
		North Hawaii Community Hospital (NHCH)	2
		The Queen's Medical Center Punchbowl	1
		Kahuku Medical Center	1
# IV tPA Administrations	18	# Transferred to QMC Punchbowl	10
		# Not transferred-remained at site or transferred to another institution	8
Transferred Potential Thrombectomy Cases	2	Thrombectomy completed	2
Total Transfers to QMC Punchbowl	12	Non tPA Transfers	9

IV tPA Administration Summary

tPA #	Spoke Site	Encounter Duration (min)	Transfer to QMC Punchbowl?	Initial NIHSS	Last NIHSS	DC Disposition
1	MGH	60	YES	6	1	Home
2	WGH	45	YES	9	2	Home
3	WGH	UTD	YES	16	16	Hospice
4	WGH	60	YES	5	0	Home
5	WGH	45	YES	14	0	Hone
6	WGH	35	YES	13	13	SNF w/ POLST
7	WGH	40	YES	6	2	Home
8	WGH	60	YES	5	0	Home
9	WGH	50	YES	8	ND	RHOP
10	WGH	30	YES	3	3	Home
11	WGH	40	YES	11	13	RHOP
12	HMC	40	NO	13	UTD	UTD
13	MGH	35	YES	11	6	RHOP
14	WGH	35	YES	15	3	RHOP
15	MGH	15	YES	7	0	HOME
16	HMC	45	NO	6	4	Transfer Kaiser Acute
17	HMC	45	NO	7	UTD	SNF

18	WGH	40	NO	16	3	UTD
19	HMC	50	NO	17	UTD	Home
20	HMC	35	NO	21	21	UTD
21	MGH	40	YES	10	4	RHOP
22	HMC	30	NO	5	1	VA home
23	MGH	UTD	YES	9	10	RHOP
24	HMC	35	NO	ND	7	Home
25	WGH	30	YES	7	0	Home
26	MGH	UTD	YES	6	6	Home
27	QMC-W	35	YES	32	24	Foster Home
28	QMC-W	120	YES	4	1	Home
29	QMC-W	40	NO	16	UNK	Transfer Kaiser Acute
30	MGH	80	YES	20	29	Expired
31	HMC	30	NO	14	8	Home
32	QMC-W	90	YES	17	5	Home
33	WGH	90	YES	10	26	Expired
34	QMC-W	50	YES	6	9	RHOP
35	QMC-W	45	YES	6	0	Home
36	HMC	35	NO	ND	ND	Expired
37	QMC-W	90	YES	24	24	Expired
38	WGH	45	YES	31	27	Hospice
39	QMC-W	40	YES	9	0	Home
40	HMC	50	NO	6	ND	Home
41	MGH	45	YES	5	1	Home
42	QMC-W	40	YES	16	6	RHOP
43	QMC-W	50	YES	10	7	Home
44	QMC-W	60	NO	11	11	DC to Kaiser Acute
45	WGH	45	YES	11	2	Home
46	QMC-W	50	YES	14	20	SNF-Short Term Rehab
47	HMC	50	NO	11	5	SNF
48	QMC-W	40	YES	13	4	Home
49	WGH	90	YES	26	1	Home
50	QMC-W	90	YES	16	5	SNF-Short Term Rehab
51	QMC-W	50	YES	15	11	STR then Hospice
52	KCH	35	NO	2	0	Home
53	QMC-W	30	YES	5	0	Home
54	WGH	60	YES	7	ND	Home
55	WGH	30	YES	19	0	SNF-Short Term Rehab
56	QMC-W	55	YES	12	0	Home
57	HMC	30	NO	37	8	SNF
58	MMMC	30	NO	17	15	Home
59	QMC-W	60	YES	22	9	DC to RHOP
60	QMC-W	NA	YES	5	1	Home
61	WGH	50	YES	23	ND	Expired
62	QMC-W	40	YES	16	15	DC to RHOP

63	QMC-W	40	YES	18	20	Expired
64	HMC	20	NO	18	1	Home
65	QMC-W	30	YES	14	ND	Home Hospice
66	MMMC	50	NO	9	NA	Home
67	MMMC	30	NO	ND	15	Home
68	QMC-W	40	YES	2	0	SNF-Short Term Rehab
69	QMC-W	NA	YES	11	2	Home
70	QMC-W	40	YES	2	2	Home
71	QMC-W	30	YES	2	4	RHOP
72	MGH	ND	YES	22	15	RHOP
73	QMC-W	80	YES	17	5	RHOP
74	QMC-W	80	YES	16	2	Home
75	QMC-W	50	YES	7	2	Home
76	QMC-W	50	YES	18	3	RHOP
77	KCH	70	NO	10	6	Home
78	MMMC	50	NO	7	4	Mainland Rehab
79	QMC-W	30	YES	4	1	Home
80	MMMC	30	NO	14	3	Home
81	NHCH	50	NO	13	2	Transfer Kaiser Acute
82	QMC-W	50	YES	7	0	Home
83	KCH	60	YES	23	3	Home
84	NHCH	60	NO	9	2	SNF-Short Term Rehab
85	QMC-W	50	YES	9	4	RHOP
86	MGH	60	YES	26	17	Expired
87	HMC	60	NO	16	1	Home
88	KCH	35	NO	13	5	SNF
89	QMC-W	30	YES	7	9	SNF
90	MMMC	60	NO	24	UNK	Expired
91	QMC-W	50	YES	23	26	Hospice
92	QMC-W	35	YES	9	8	Home
93	QMC-W	45	YES	4	2	Home
94	KCH	50	NO	16	19	Home Hospice
95	QMC-W	50	YES	3	0	Home
96	QMC-W	50	YES	13	4	Home
97	KCH	40	NO	5	0	Home
98	NHCH	60	YES	12	0	Home
99	QMC-W	50	YES	4	1	Home
100	KCH	70	YES	24	30	Expired
101	QMC-W	50	YES	10	0	Home
102	WGH	50	YES	5	2	RHOP
103	WGH	50	YES	21	0	Home
104	WGH	50	YES	6	3	SNF-Short Term Rehab
105	HMC	50	NO	5	0	Home
106	NHCH	50	YES	4	2	RHOP
107	QMC-W	45	YES	9	1	Home
108	QMC-W	40	YES	10	1	Home

109	QMC-W	40	YES	7	1	RHOP
110	NHCH	50	YES	23	22	Home Hospice
111	QMC-W	50	YES	6	0	Home
112	QMC-W	50	YES	8	3	Home
113	KCH	50	NO	16	ND	Transfer Kaiser Acute
114	HMC	50	NO	18	ND	SNF-Short Term Rehab
115	NHCH	50	YES	15	3	HOME
116	QMC-W	40	YES	17	0	HOME
117	QMC-W	60	YES	19	14	Transfer Kaiser Acute
118	HMC	45	NO	23	18	SNF-Short Term Rehab
119	QMC-W	50	YES	9	7	RHOP
120	HMC	35	NO	1	0	Home
121	QMC-W	60	YES	8	15	Home (No insurance)
122	HMC	50	YES	11	0	Home
123	QMC-W	45	YES	4	4	Transfer Kaiser Acute
124	HMC	60	NO	5	ND	Home
125	QMC-W	55	YES	6	0	Home
126	QMC-W	50	YES	6	0	Home
127	NHCH	50	NO	5	2	Home
128	QMC-W	45	YES	4	1	HOME
129	HMC	40	NO	14	17	Hospice
130	QMC-W	50	YES	4	0	Home
131	QMC-W	40	YES	35	6	SNF-Short Term Rehab
132	QMC-W	40	YES	12	8	RHOP
133	MGH	40	YES	18	25	Hospice
134	NHCH	50	YES	6	3	Home
135	KCH	60	YES	7	1	Home
136	QMC-W	60	YES	2	0	Home
137	KCH	40	NO	4	0	Home
138	HMC	40	NO	24	ND	Home
139	KCH	45	NO	6	7	SNF
140	WGH	60	YES	17	5	Foster Home
141	HMC	65	YES	3	3	SNF
142	WEST	40	YES	6	0	Transfer Kaiser Acute
143	KCH	40	NO	15	13	Home
144	MMMC	35	NO	2	0	Home
145	KCH	50	YES	5	0	Home
146	HMC	50	NO	8	9	RHOP
147	MGH	50	YES	5	9	RHOP
148	WEST	45	YES	9	6	RHOP
149	KCH	50	YES	5	24	Expired (ICH)
150	MGH	60	YES	5	1	Home
151	QMC-W	50	YES	5	3	Home
152	QMC-W	50	YES	5	0	HOME
153	WGH	40	YES	4	6	RHOP
154	WGH	50	YES	3	4	RHOP

155	QMC-W	50	YES	8	0	Home
156	QMC-PB	50	YES	12	2	SNF-Short Term Rehab
157	QMC-W	70	YES	28	29	Expired
158	QMC-W	45	YES	11	0	Home
159	WGH	50	YES	5	0	Home
160	QMC-W	50	YES	6	0	Home
161	QMC-W	45	YES	11	5	Home
162	HMC	40	NO	9	7	SNF
163	QMC-W	45	YES	3	0	Home
164	QMC-W	60	YES	28	28	Expired
165	QMC-W	40	YES	11	1	Home
166	QMC-W	60	YES	8	4	RHOP
167	QMC-W	50	YES	20	3	Home
168	QMC-PB	60	NA	18	15	SNF-Short Term Rehab
169	QMC-W	ND	YES	29	4	RHOP
170	WGH	40	YES	24	32	Expired
171	QMC-W	40	YES	3	0	Home
172	QMC-W	50	YES	20	32	SNF
173	NHCH	40	YES	26	22	SNF-Short Term Rehab
174	HMC	40	NO	20	ND	SNF
175	QMC-W	50	YES	2	0	Home
176	QMC-PB	40	YES	4	0	Home
177	QMC-W	60	YES	4	0	Home
178	HMC	60	NO	18	7	Long Term Care
179	QMC-W	50	YES	20	6	Left AMA- Home
180	QMC-PB	60	NA	25	17	RHOP
181	WGH	40	YES	6	1	Home
182	QMC-W	60	YES	17	7	SNF-Short Term Rehab
183	QMC-W	60	YES	4	1	Home
184	KCH	60	YES	24	32	Hospice
185	QMC-W	50	YES	21	15	Inpatient Rehab in WA
186	QMC-PB	50	NA	4	1	Home
187	MMMC	40	NO	3	0	Home
188	HMC	40	NO	20	11	SNF
189	HMC	50	NO	6	0	Home
190	KCH	50	NO	4	2	SNF
191	HMC	45	NO	10	2	SNF
192	PB	45	NO	17	4	RHOP
193	HMC	50	NO	4	1	Home
194	QMC-PB	50	NA	20	25	Expired
195	QMC-W	45	YES	7	7	Home (Chronic Pain)
196	QMC-W	ND	YES	12	2	Home
197	QMC-W	50	YES	4	0	Home
198	QMC-W	50	YES	3	0	Home
199	KCH	50	YES	16	4	RHOP
200	QMC-W	60	YES	3	1	Home

201	QMC-W	ND	YES	30	23	Expired
202	HMC	30	NO	2	0	Home
203	QMC-W	45	YES	13	30	Home Hospice
204	QMC-W	60	YES	4	0	Home
205	HMC	60	NO	7	0	Home
206	WGH	ND	YES	27	20	SNF-Short Term Rehab
207	QMC-W	60	YES	10	1	Home
208	QMC-PB	40	NA	13	3	SNF-Short Term Rehab
209	QMC-W	45	YES	6	3	Home
210	QMC-W	50	YES	4	6	RHOP
211	HMC	50	NO	21	21	SNF
212	QMC-W	50	YES	7	3	RHOP
213	QMC-W	45	YES	26	35	Expired
214	QMC-W	ND	YES	10	4	Home
215	HMC	50	NO	9	0	Home
216	KCH	65	NO	12	0	Home
217	QMC-W	30	YES	10	0	Home
218	QMC-W	40	YES	2	0	Home
219	HMC	40	NO	14	13	SNF
220	QMC-W	70	YES	11	11	RHOP
221	QMC-PB	70	NA	8	0	Home
222	QMC-W	60	YES	8	0	Home
223	QMC-PB	60	NA	11	0	SNF (Behavioral issues)
224	KCH	40	NO	3	0	SNF
225	NHCH	60	YES	20	5	RHOP
226	KCH	55	NO	4	3	Home
227	QMC-PB	40	NA	8	0	Home
228	QMC-PB	40	NA	13	0	Home
229	KCH	45	YES	6	0	Home
230	KCH	40	NO	7	6	RHOP
231	QMC-W	40	NO	11	6	Kaiser Acute
232	KCH	40	NO	3	3	Home
233	QMC-W	60	YES	16	10	Home-Foster Care
234	QMC-W	45	YES	1	1	RHOP
235	QMC-W	50	YES	5	0	Home
236	QMC-W	70	YES	6	1	Home
237	KCH	60	YES	22	0	Home
238	NHCH	40	YES	21	3	RHOP
239	KAHUKU	40	YES	4	0	Home
240	QMC-W	60	YES	6	0	Home
241	QMC-W	45	YES	4	0	Home
242	HMC	40	NO	4	4	Home
243	QMC-PB	70	NA	7	5	RHOP
244	QMC-W	45	YES	7	3	RHOP
245	QMC-W	70	YES	4	0	Home
246	KCH	60	YES	24	1	Home

247	QMC-W	40	NO	3	ND	Kaiser Acute
248	QMC-W	120	NO	22	ND	Kaiser Acute
249	NHCH	50	YES	21	6	RHOP
250	QMC-W	50	YES	5	3	Home
251	KCH	60	YES	14	0	Home
252	NHCH	45	YES	17	6	RHOP
253	QMC-W	45	YES	5	2	Home
254	QMC-W	45	YES	2	2	Home
255	QMC-W	70	YES	19	2	Home
256	HMC	50	NO	7	ND	SNF
257	QMC-W	70	YES	5	0	Home
258	HMC	50	NO	7	4	SNF
259	QMC-W	45	YES	4	0	Home
260	QMC-W	40	YES	6	3	RHOP
261	KAHUKU	40	YES	6	1	Home
262	QMC-W	45	YES	25	0	Home
263	HMC	35	NO	1	0	Home
264	WGH	35	YES	11	5	Home
265	QMC-W	70	NO	21	NA	Kaiser Acute
266	WGH	50	YES	4	1	Home
267	QMC-PB	40	NA	3	0	Home
268	HMC	50	NO	5	1	Home
269	WGH	60	NO	21	NA	Kaiser Acute
270	WGH	35	YES	18	27	SNF
271	QMC-W	65	YES	21	4	RHOP
272	PB	70	NA	7	7	RHOP
273	QMC-W	45	YES	19	18	Home (seizure)
274	KCH	60	NO	13	2	Expired (MI/Cardiac arrest)
275	NHCH	60	NO	15	ND	SNF-Short Term Rehab
276	WGH	50	NO	7	0	Kaiser Acute
277	KCH	50	NO	7	3	Home
278	QMC-W	45	YES	9	5	RHOP
279	WGH	50	NO	24	ND	Expired
280	PB	45	NA	3	0	Home
281	QMC-W	45	YES	5	3	Home
282	KCH	60	YES	6	1	Home
283	QMC-W	100	YES	29	26	Expired
284	MGH	40	YES	15	4	Home
285	QMC-W	70	YES	9	3	SNF-Short Term Rehab
286	KCH	40	NO	2	ND	Home
287	QMC-W	60	YES	10	29	Home Hospice
288	PB	50	NA	9	1	Home
289	KAHUKU	50	YES	5	0	Home
290	QMC-W	60	YES	20	25	SNF-Short Term Rehab
291	NHCH	70	NO	24	ND	RHOP
292	KCH	40	NO	9	5	Home

293	QMC-W	60	YES	4	0	Home
294	KCH	60	NO	10	4	SNF
295	QMC-W	60	YES	6	1	Home
296	QMC-W	45	YES	26	21	Hospice
297	QMC-W	60	YES	19	1	Home
298	QMC-W	60	YES	4	2	Home
299	KCH	60	NO	4	3	SNF
300	PB	50	NA	3	0	Home
301	KCH	60	NO	7	ND	SNF
302	KCH	45	NO	24	19	SNF
303	KCH	35	NO	4	1	Home
304	WGH	40	YES	11	0	Home
305	KAHUKU	50	YES	4	1	Home
306	WGH	50	YES	15	5	Home
307	PB	45	NA	1	0	Home
308	PB	70	NA	20	20	Expired
309	QMC-W	35	YES	5	2	Home
310	MGH	50	YES	4	3	SNF
311	PB	50	NA	15	3	RHOP
312	QMC-W	50	YES	23	0	Home
313	HMC	40	NO	4	UNK	Home
314	KCH	45	NO	21	1	Home
315	NHCH	40	NO	10	1	Home
316	QMC-W	70	YES	8	1	Home
317	QMC-W	45	YES	13	NA	Kaiser Acute
318	QMC-W	60	YES	16	13	Kaiser Acute
319	HMC	50	NO	10	0	SNF
320	KCH	35	NO	25	15	RHOP
321	MGH	35	YES	14	0	Home
322	WGH	30	YES	20	16	SNF-Short Term Rehab
323	QMC-W	40	YES	4	25	Expired
324	QMC-W	50	YES	23	24	Expired
325	HMC	50	NO	4	1	Home AMA
326	WGH	60	NO	15	10	RHOP
327	HMC	90	YES	6	16	SNF-Short Term Rehab
328	HMC	50	NO	5	7	SNF
329	HMC	50	NO	1	0	Home
330	HMC	35	NO	5	4	SNF
331	QMC-W	60	YES	9	4	Home
332	WGH	35	NO	24	22	Hospice
333	NHCH	70	YES	34	36	Expired
334	QMC-W	70	YES	10	0	Home
335	HMC	35	NO	3	0	Home
336	KCH	40	NO	8	1	Home
337	NHCH	40	NO	3	2	RHOP
338	QMC-W	60	YES	10	4	RHOP

339	QMC-W	50	YES	20	14	RHOP
340	HMC	30	NO	3	0	Home
341	QMC-W	70	YES	13	6	Home
342	QMC-W	60	YES	7	0	Home
343	KCH	30	NO	5	UNK	Home
344	QMC-W	45	YES	4	6	Home
345	QMC-W	60	YES	4	0	Home
346	QMC-W	60	YES	5	1	Home
347	QMC-W	70	YES	12	4	Home
348	HMC	40	NO	3	ND	Home AMA
349	QMC-W	50	YES	33	14	SNF-Short Term Rehab
350	QMC-W	60	YES	17	4	RHOP
351	HMC	45	NO	23	0	SNF
352	NHCH	60	NO	28	6	SNF-Short Term Rehab
353	NHCH	50	NO	11	12	SNF
354	QMC-W	45	YES	23	18	Hospice
355	PB (inpt)	45	NA	23	NA	Expired (cardiac arrest)
356	WGH	60	YES	5	0	Home
357	HMC	60	NO	16	7	SNF-Short Term Rehab
358	QMC-W	70	YES	18	15	ICF
359	WGH	60	NO	7	0	Home
360	HMC	60	NO	ND	0	Home
361	WGH	60	YES	9	2	Home
362	QMC-W	60	YES	10	8	RHOP
363	HMC	40	NO	5	3	SNF
364	HMC	45	NO	5	2	SNF-Short Term Rehab
365	PB	60	YES	4	4	SNF-Short Term Rehab
366	QMC-W	40	YES	11	4	RHOP
367	NHCH	70	NO	30	28	Hospice
368	MGH	60	YES	ND	2	SNF-Short Term Rehab
369	QMC-W	40	YES	7	0	Home
370	HMC	70	NO	21	ND	Expired
371	PB	70	NA	22	13	RHOP
372	HMC	70	YES	30	3	Home
373	QMC-W	40	NO	3	0	Home
374	HMC	50	NO	28		SNF-Short Term Rehab
375	NHCH	40	NO	3	0	Home
376	QMC-W	30	NO	5		Kaiser Acute
377	QMC-W	35	YES	11	2	RHOP
378	KCH	60	NO	5		
379	QMC-W	60	YES	5	2	RHOP
380	QMC-W	60	YES	4	0	Home
381	HMC	30	NO	4		
382	QMC-W	40	YES	10	3	Home
383	QMC-W	60	YES	13	13	RHOP
384	QMC-W	45	YES	7	0	Home

385	QMC-W	45	YES	6	0	Home
386	QMC-W	60	NO	7	0	Home
387	NHCH		YES	29		

- 106 patients did not receive t-PA but transferred to QMC for further treatment such as endovascular reperfusion, closer monitoring, further evaluation and diagnosis of intracerebral hemorrhage (ICH).
- 543 patients remained at spoke site or were transferred to another institution since they were not tPA candidates and did not require a higher level of care. These patients were diagnosed with mild stroke, completed stroke, complex migraine, seizure, old stroke, ICH, fatal stroke or with transient symptoms.
- 56 patients at HMC, 8 patients at MMMC, 11 patients at NHCH, 24 patients at KCH, 4 patients from Wahiawa General, 1 patient at QMC West and 20 patients at QMC Punchbowl received t-PA and remained at site. 8 patients from QMC West and 1 patient from NHCH transferred to Kaiser.
- Telemedicine encounters require about 35- 70 minutes of direct critical care time.

Community Education

- January 2019– Nanakuli-Waianae School District Elementary and Middle School Stroke Education: Jen Moran, MS, ACNP in collaboration with the American Heart Association ongoing stroke education sessions.
- Spring 2018– Campbell-Kapolei Complex Elementary and Middle School Stroke Education: Jen Moran, MS, ACNP in collaboration with the American Heart Association completed stroke education sessions in the Campbell-Kapolei school complex in west Oahu reaching over 15,000 students and parents with the F.A.S.T information
- January 3, 2018 – MaryKnoll First Graders □ FAST Stroke Education □ Jennifer Moran
- December 2017 – Kupuna Community Service □ Sid Jackler, PA. HPD sponsored. 200 attended and received bags with stroke information.
- November 2017 – Ultimate Frisbee Tournament. Over 500 participants ages 20□60, US and international guests. Dispensed FAST magnets, gift bags.
- September 21, 2017 – Jen Moran, MS, provided stroke education at the 6th Annual Molokai Disability Resource Fai for Molokai community members – seniors
- June,6, 2017 – Jen Moran, MS, ACNP educated 30 RHOP stroke survivors on stroke prevention and FAST
- May 31, 2017 – Jen Moran, MS, ACNP provided FAST education for Mary Knoll elementary school's kindergarten class
- May 22, 2017 – Jen Moran, MS, ACNP provided FAST education at Ma'ilili elementary school for grades K-6
- May 16, 2017 – Jen Moran, MS, ACNP provided FAST education at Waianae elementary school for grades K-6

- May 8 and 13, 2017– Jen Moran, MS, ACNP educated community listeners on Dr Health radio show (live and rebroadcast).
- May 1, 2017–Kazuma Nakagawa, M.D. and Jen Moran, MS, ACNP appeared on KHON's "Living808" to provide stroke education
- April 28, 2017– QMC RNs (including Ilocano speaking) educated 300 Monsanto employees on stroke awareness
- January 9, 2017– Cherylee Chang, M.D. appeared on KHON morning news to inform public about QMC becoming the first Comprehensive Stroke Center in Hawaii and treatment available for stroke.
- December 5, 2016– Jen Moran, MS, ACNP discussed stroke recognition and risk factors in light of recent death of Keo Woolford (Local huala and producer talent) on KHON am Talk show. Public Television.
- October 28, 2016 – Jen Moran and local AACN chapter RNs educate St. Clemente Kindergarten classes Hands on CPR and FAST stroke recognition
- July 19, 2016, – Matthew Koenig, M.D. and Jen Moran, MS, ACNP educated 50 residents at Craigsides Senior living facility on stroke education.
- June 16, 2017 – Jen Moran, MS, ACNP educated AHA Heart Health: Simple 7 and Stroke Awareness
- May, 2016 – Matthew Koenig, M.D. Speaking of Health QMC: How to Prevent and Survive a Stroke QMC Speaking of Health Community education venue https://youtu/xk6yMwuo_b1Mwuo
- May, 2016 – Nakagawa, Kazuma, M.D discussed stroke awareness, prevention and treatment in Ka Wai Ola SNF Newsletter
- June 16, 2016 – Johnna DelCastillo Taught S/S of stroke and distributed stroke magnets to Canoe Paddling Club members (about 18 children).
- June 16, 2016 – Tiffany Hoke DNP, educated the community of Lanai on AHA's Life's Simple Seven
- May 28, 2016 – Rony, Salem, M.D. educated the public about stroke awareness on KDNH radio station
- May 27, 2016 – Matthew Koenig, M.D. promoted stroke awareness at Speaking of Health QMC– AMC Community Awareness Health topics
- May 25, 2016 Jen Moran, MS, ACNP educated about 150 members of the public at Stroke Awareness Booth Kualoa Ranch Health and Benefits Fair.
- May 14, 2016 – Matthew Koenig, M.D., Sung Lee, M.D and Jen Moran, MS, ACNP spoke on KHNR 690 AM's "Dr Health Radio" show to promote stroke awareness
- May 9, 2016 – Matthew Koenig, M.D. and Sung Lee, M.D. spoke about stroke awareness and systems of Care on KITV Body Show
- April 26, 2016 – QMC RNs (including Ilocano speaking) educated 300 Monsanto employees on stroke awareness
- April 21, 2016 – Denise Dittrich, RN educated members of the Windward YMCA. AHA presentation. Life's Simple Seven.
- March 14, 2016 – Jen Moran, MS, ACNP spoke on Healthy Mondays Radio Show on AM Christian Radio station
- March 14, 2016 – Jen Moran, MS, ACNP discussed Stroke in Our Community on Public AM radio station

- March 11, 2016 –QMC RNs educate St. Clemente Kindegarten classes on Hands only CPR and FAST stroke recognition
- March 2, 2016 – Matthew Koenig, M.D. Your Brain Matters, Channel 54 Olelo Access TV
- February 25, 2016 – Juliet Beniga, RN educated community of Molokai for Nā Pu‘uwai on AHA’s Life’s Simple Seven
- January 28, 2016–QMC MDs and RNs spoke with members of Hawaii Young Professional Executives meeting on stroke education
- September 28, 2015 Article in Star-Advertiser entitled, “When Stroke Symptoms are present FAST action is critical”.
- May 17, 2014–QMC West O‘ahu Community Health Fair- educated 1000 people on stroke signs and symptoms and telestroke network.
- Public health campaign 'Spot a Stroke' was a joint effort between DOH, QMC, and AHA that placed stroke education signs on every Oahu bus from May-September of this year. This campaign resulted in an estimated 14 million impressions on Oahu bus riders and was paid from our Neurotrauma Fund grant and the placement fee was donated by Ad Walls.
- Dr Koenig filmed a promo with the Pacific Basin Telehealth Resource Center regarding the telestroke project. To view the video: <http://vimeo.com/102377242>
- July 22, 2013–Craigside Place, educated 100 seniors on “Stroke: What you should know.”
- June 21, 2013–Waipio Senior Fair, Hawaii Okinawan Center, partnered with Wahiawa General Hospital and Genentech to conduct stroke risk assessments with 240 people and educate on stroke signs and symptoms and telestroke network.
- May 29, 2013–QMC, educated 150 medical center staff and guests on the stroke chain of survival (i.e. stroke risk factors, stroke signs and symptoms, acute stroke treatment and the telestroke network).
- May 16, 2013–Hawaii Dental Services, educated 40 worksite staff on “Heart Disease and Stroke: What women should know.”
- April 24, 2013 –QMC, educated 15 volunteers on “Stroke: What you should know.”
- February 15, 2013- Moanalua Middle School Health and Safety Fair, educated over 75 middle schoolers on signs and symptoms of stroke.
- October 27, 2012 - Wahiawa Community Health Fair, educated over 300 in the Wahiawa community about stroke and signs and symptoms and introduced them to Hawaiian Islands Regional Stroke Network Camera System.
- Article in Star-Advertiser on 10/18/12